

**INTERNATIONAL SEARCH REPORT**

# INTERNATIONAL SEARCH REPORT

**International application No.**

BCT / TB03 / 18

PCT/JP03/15057

## A. CLASSIFICATION OF SUBJECT MATTER

Classification of Subject Matter  
Int.C1<sup>7</sup> H04B7/10, H04B7/08, H04B7/26, H04L27/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04B7/00, H04B7/02-7/12, H04L1/02-1/06, H04B7/24-7/26,  
H04Q7/00-7/38, H04L27/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used).

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	Takatoshi SUGIYAMA et al., "Guard Interval-cho Tekio Kahengata PDM-COFDM Hoshiki no Kento", The Institute of Electronics, Information and Communication Engineers 2002 Nen Sogo Taikai Koen Ronbunshu, 2002, March, 27-30, p.616, B-5-165		1-16
A	To ARAIDA et al., "Jikukan Block Fugo Gyoretsu o Mochiita Tekio Hencho", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 27 February, 2002 (27.02.02), Vol.101, No.676, pages 31 to 36, SST 2001-66, ISSN 0913-5685		1-16

Further documents are listed in the continuation of Box C.

See patent family annex.

- |          |   |     |  |
|----------|---|-----|--|
| *<br>"A" | Special categories of cited documents:<br>document defining the general state of the art which is not considered to be of particular relevance                      | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "E"      | earlier document but published on or after the international filing date  | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "L"      | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O"      | document referring to an oral disclosure, use, exhibition or other means  | "&" | document member of the same patent family  |
| "P"      | document published prior to the international filing date but later than the priority date claimed  |     |  |

Date of the actual completion of the international search  
27 February, 2004 (27.02.04)

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09 March, 2004 (09.03.04)

Name and mailing address of the ISA/  
Japanese Patent Office

**Authorized officer**

**Facsimile No.**

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/15057

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	JP 2003-318853 A (Nippon Telegraph And Telephone Corp.), 07 November, 2003 (07.11.03), (Family: none)	1-16
P,A	JP 2003-244045 A (Sanyo Electric Co., Ltd.), 29 August, 2003 (29.08.03), & WO 03/71714 A1	1-16
T	Yutaka MURAKAMI et al., "MIMO System ni Okeru Koyuchi o Mochiita BER Tokusei no Kaiseki", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 19 March, 2003 (19.03.03), Vol.102, No.745, pages 167 to 172, SST 2002-182, ISSN 0913-5685	1-16

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